

**REMARKS**

Applicant thanks the Examiner for acknowledging Applicant's claim to foreign priority under 35 U.S.C. § 119(a)-(d), and for confirming that the certified copy of the priority document has been received at the Patent Office.

**Information Disclosure Statement:**

Applicant thanks the Examiner for initialing and returning Forms PTO-1449 filed on March 22, 2001 and August 9, 2002, thus indicating that all of the references listed thereon have been considered.

**Drawings:**

Applicant thanks the Examiner for indicating that the drawings filed on March 22, 2001 have been approved.

**Election/Restriction:**

Applicant thanks the Examiner for acknowledging Applicant's election of claims 18-52 for prosecution without traverse, and that claims 1-17 have been withdrawn.

Applicant notes that claims 1-17 have been cancelled from the present application.

**Specification/Title:**

The Examiner has objected to the Title of the present application, indicating that it is not clearly indicative of the invention to which the claims are directed. Applicant respectfully disagrees.

Applicant notes that all of the claims 18-52 are directed to an "image recording medium." Thus, Applicant submits that the present Title is acceptable. Specifically, Applicant notes that

the present Title is adequately descriptive of the claimed invention, and provides one of ordinary skill in the art with an understanding as to what the present application is directed to, i.e. an “image recording medium and method of manufacturing the same.”

Thus, Applicant hereby requests the Examiner reconsider and withdraw the above objection to the Title.

**Claim Rejections:**

Claims 18-52 are all of the claims that have been examined in the present application, and currently all of the claims stand rejected.

As an initial matter, Applicant notes that claims 18-25 and 51 have been cancelled without prejudice or disclaimer.

***35 U.S.C. § 103(a) Rejection - Claims 26-50 and 52:***

Claims 26-50 and 52 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 4,535,468 to Kempter, in view of U.S. Patent No. 4,842,973 to Badesha et al. and U.S. Patent No. 6,171,643 to Polischuk. In view of the following discussion, Applicant respectfully traverses the above rejection.

Unlike the image recording mediums of Kempter, Badesha and Polischuk, the present invention comprises (1) a support which is transparent with respect to a reading electromagnetic wave; (2) a first electrode layer which is also transparent with respect to the reading electromagnetic wave; (3) a reading photoconductive layer; (4) a charge accumulating portion; (5) a recording photoconductive layer; and (6) a second electrode layer. *See* claims 26 and 35. This structure is not disclosed in any of the above cited references.

As indicated in the present application, a characteristic of an image recording medium having the structure described above (in the claims 26 and 35) is that during readout of an image having a low amount of radiation dosage, the strength of an electric field in the reading photoconductive layer is weak. Having this characteristic leads to difficulties in charged pair generation, thus resulting in deteriorated readout efficiency and S/N ratios. Thus, to address this characteristic of image recording mediums, the interfacial crystallization must be suppressed, while at the same time, the deterioration in charged pair generation efficiency must be prevented. This is done in the claimed invention.

In the claimed invention, the interfacial crystallization suppressing As doped layer is provided to function both as a spatial charge generation layer (as described on pages 68-70) and the interfacial crystallization suppressing As doped layer. Thus, the interfacial crystallization suppression layer of the claimed invention also serves to improve the charged pair generating efficiency. Kempter is completely silent as to having a layer function as a spatial charge generation layer, and both Polischuk and Badesha do not disclose or require such a function. Therefore, even if the above references were combined as suggested by the Examiner, the resultant combination would fail to teach or suggest each and every features of claims 26 and 35.

In view of the foregoing, Applicant submits that the neither of the Kempter, Badesha or Polischuk references teach or suggest each and every feature of the present invention, either individually or in combination. As such, the Examiner has failed to establish a *prima facie* case of obviousness with respect to claims 26 and 35. Accordingly, Applicant hereby requests the Examiner reconsider and withdraw the above 35 U.S.C. § 103(a) rejection of these claims.

AMENDMENT UNDER 37 C.F.R. § 1.111  
U.S. Application No.: 09/813,883

Our Ref.: Q61202  
Art Unit: 2862

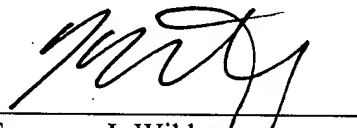
Further, as claims 27-34 and 36-50, 52 depend on these claims, respectively, Applicant submits that these claims are also allowable, at least by reason of their dependence.

**Conclusion:**

In view of the above, reconsideration and allowance of this application are now believed to be in order, and such actions are hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the telephone number listed below.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,



Terrance J. Wikberg  
Registration No. 47,177

SUGHRUE MION, PLLC  
Telephone: (202) 293-7060  
Facsimile: (202) 293-7860

WASHINGTON OFFICE

**23373**

CUSTOMER NUMBER

Date: December 5, 2003